ASSIGNMENT 2

Assignment Date	4october 2022
Student Name	Sowmya.P
Student Roll Number	311419106029
Maximum Marks	2 Marks

QUESTION:

Build a python code, Assume you get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature.

Aim:

To get temperature and humidity values (generated with random function to a variable) and write a condition to continuously detect alarm in case of high temperature

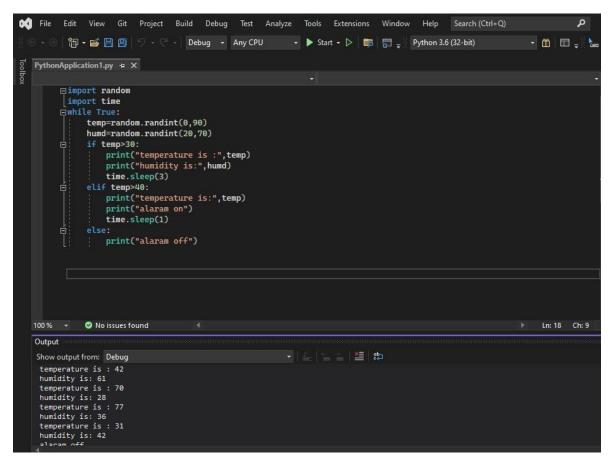
Code:

```
import random import time while
True:
temp=random.randint(0,90)
humd=random.randint(20,70) if
temp>30: print("temperature
is:",temp) print("humidity
is:",humd)
    time.sleep(3) elif temp>40:
print("temperature is:",temp)
print("alaram on")
time.sleep(1) else:
print("alaram off")
```

output:

temperature is: 48 humidity is: 55 temperature is: 90 humidity is: 66 temperature is: 57 humidity is: 43 temperature is: 42 humidity is: 32 temperature is: 59 humidity is: 47 $temperature\ is:42$ humidity is: 25 alaram off temperature is: 80 humidity is: 35 alaram off temperature is: 55 humidity is: 50 temperature is: 59 humidity is: 42 alaram off temperature is: 77 humidity is: 48 temperature is : 42 humidity is: 63 alaram off alaram off

program screen:



Output screen:

```
C:\Users\Home\AppData\Local\Programs\Python\Python36-32\python.exe
alaram off
temperature is : 34
humidity is: 44
temperature is : 41
humidity is: 62
temperature is : 87
humidity is: 56
temperature is : 59
humidity is: 21
alaram off
alaram off
alaram off
temperature is : 33
humidity is: 52
temperature is: 47
humidity is: 32
alaram off
alaram off
alaram off
temperature is: 78
humidity is: 65
temperature is : 51
humidity is: 55
temperature is: 32
humidity is: 65
temperature is: 80
humidity is: 61
temperature is: 36
humidity is: 39
```

Result:

Thus temperature and humidity values are derived and alarm is detected at high temperature.